

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/615,431  
Applicant: Mark E. Dausch et al.  
Filed: July 7, 2003  
Title: KNOWLEDGE MANAGEMENT SYSTEM AND METHODS FOR CRUDE  
OIL REFINING  
Art Unit : 1743  
Confirmation No.: 7472  
Examiner: Brian J. Sines  
Docket No.: 135541-1  
Customer No.: 006147

**REPLY TO OFFICE ACTION**  
(In compliance with 37 CFR § 1.113)

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed on September 24, 2007, please consider the following amendments and remarks.

**Listing of the Claims** begins on page 2 of this Reply.

**Remarks** begin on page 6 of this Reply.